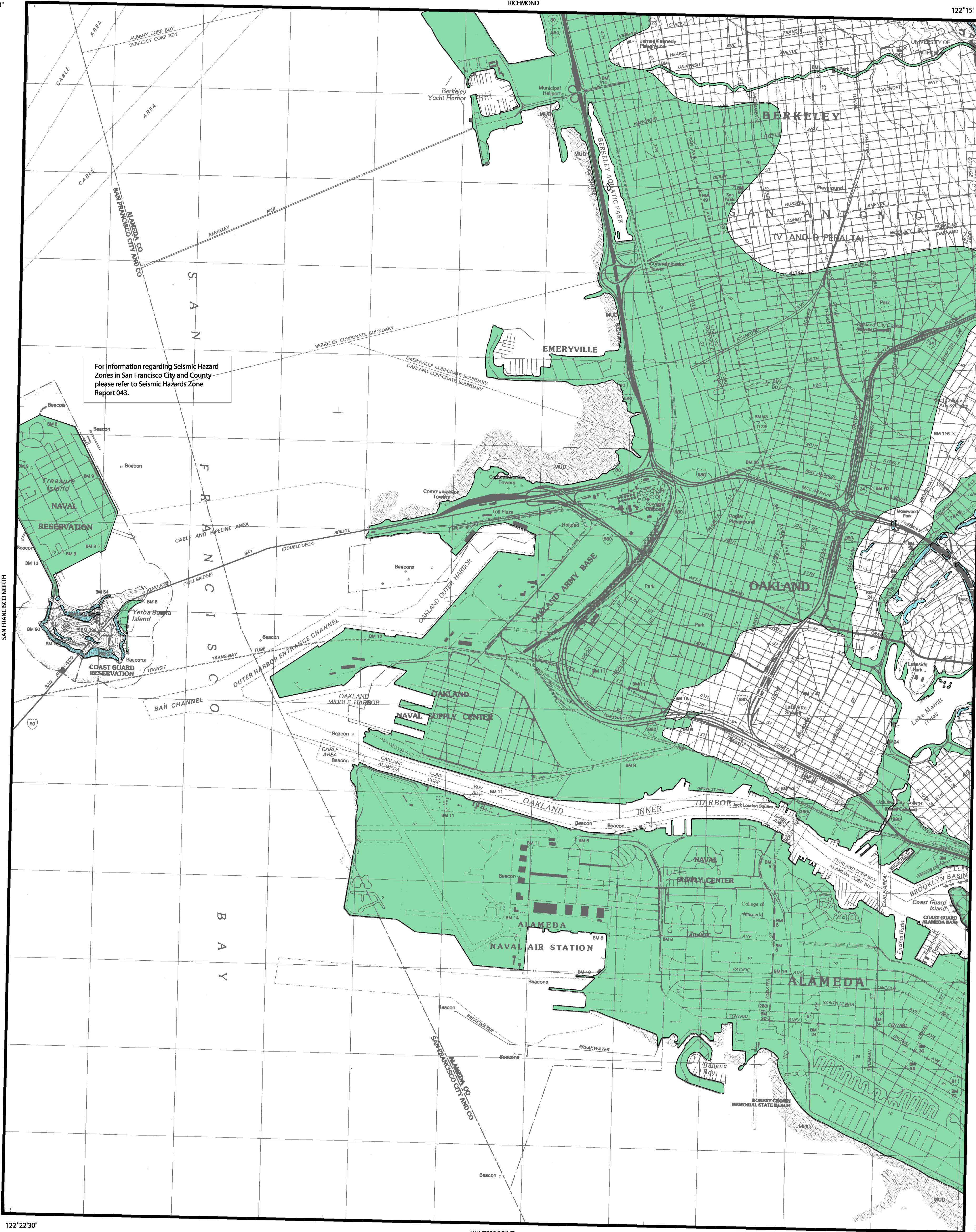




Base Map prepared by U.S. Geological Survey, 1997.  
Zones of required investigation boundaries may reflect updated digital  
topographic data that can differ significantly from contours shown on the base map.

PURPOSE OF MAP

This map will assist cities and counties in fulfilling their responsibilities for protecting  
the public from the effects of earthquake-triggered ground failure as required  
by the Seismic Hazards Mapping Act (Public Resources Code Sections 2690-2699.6).

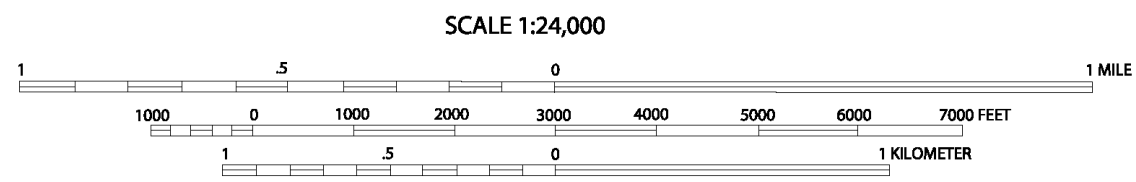
For information regarding the general approach and recommended methods for  
preparing this map, see DMG Special Publication 118, *Recommended Criteria  
for Delineating Seismic Hazard Zones in California*.

For information regarding the scope and recommended methods to be used in con-  
ducting the required site investigations, see DMG Special Publication 117, *Guidelines  
for Evaluating and Mitigating Seismic Hazards in California*.

For a general description of the Seismic Hazard Mapping Program, the Seismic Hazards  
Mapping Act and regulations, and related information, please refer to the website at  
[www.conservation.ca.gov/cgs/](http://www.conservation.ca.gov/cgs/).

IMPORTANT - PLEASE NOTE

- 1) This map may not show all areas that have the potential for liquefaction, landsliding,  
strong earthquake ground shaking or other earthquake and geologic hazards. Also, a  
single earthquake capable of causing liquefaction or triggering landslide failure will not  
uniformly affect the entire area zoned.
- 2) Liquefaction zones may also contain areas susceptible to the effects of earthquake-  
induced landslides. This situation typically exists at or near the toe of existing landslides,  
downslope from rockfall or debris flow source areas, or adjacent to steep stream banks.
- 3) This map does not show Alquist-Priolo earthquake fault zones, if any, that may exist  
in this area. Please refer to the latest official map of earthquake fault zones for dis-  
closures and other actions that are required by the Alquist-Priolo Earthquake Fault  
Zoning Act. For more information on this subject and an index to available maps, see  
DMG Special Publication 42.
- 4) Landslide zones on this map were determined, in part, by adapting methods originally  
developed by the U.S. Geological Survey (USGS). Landslide hazard maps prepared  
by the USGS typically use experimental approaches to assess earthquake-induced  
and other types of landslide hazards. Although aspects of these new methodologies  
may be incorporated in future California Geological Survey (CGS) seismic hazard  
zone maps, USGS maps should not be used as substitutes for these  
Official SEISMIC HAZARD ZONES maps.
- 5) U.S. Geological Survey base map standards provide that 90 percent of cultural features  
be located within 40 feet (horizontal accuracy) at the scale of this map. The identification  
and location of liquefaction and earthquake-induced landslide zones are based on available  
data. However, the quality of data used is varied. The zone boundaries depicted have been  
drawn as accurately as possible at this scale.
- 6) Information on this map is not sufficient to serve as a substitute for the geologic and  
geotechnical site investigations required under Chapters 7.5 and 7.8 of Division 2 of the  
Public Resources Code.
- 7) DISCLAIMER: The State of California and the Department of Conservation make no  
representations or warranties regarding the accuracy of the data from which these maps  
were derived. Neither the State nor the Department shall be liable under any circumstances  
for any direct, indirect, special, incidental or consequential damages with respect to any  
claim by any user or any third party on account of or arising from the use of this map.



STATE OF CALIFORNIA  
SEISMIC HAZARD ZONES

Delineated in compliance with  
Chapter 7.8, Division 2 of the California Public Resources Code  
(Seismic Hazards Mapping Act)

OAKLAND WEST QUADRANGLE

OFFICIAL MAP

Released: February 14, 2003

STATE GEOLOGIST

MAP EXPLANATION

Zones of Required Investigation:

Liquefaction

Areas where historical occurrence of liquefaction, or local geological,  
geotechnical and ground-water conditions indicate a potential for  
permanent ground displacements such that mitigation as defined in  
Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslides

Areas where previous occurrence of landslide movement, or local  
topographic, geological, geotechnical and subsurface water conditions  
indicate a potential for permanent ground displacements such that  
mitigation as defined in Public Resources Code Section 2693(c) would  
be required.

NOTE: Seismic Hazard Zones identified on this map may include developed land  
where delineated hazards have already been mitigated to city or county  
standards. Check with your local building/planning department for information  
regarding the location of such mitigated areas.

DATA AND METHODOLOGY USED TO DEVELOP  
THIS MAP ARE PRESENTED IN THE FOLLOWING:

Seismic Hazard Zone Report of the Oakland West 7.5-Minute Quadrangle, Alameda County  
California: California Geological Survey, Seismic Hazards Zone Report 081.

For additional information on seismic hazards in this map area, the rationale used  
for zoning, and additional references consulted, refer to CGS's World Wide Web site

[www.conservation.ca.gov/cgs/](http://www.conservation.ca.gov/cgs/)